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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,309	12/06/2001	Katsuya Kanakubo	00-370837	4819
466	7590	08/10/2005	EXAMINER	
YOUNG & THOMPSON 745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202			MATTIS, JASON E	
			ART UNIT	PAPER NUMBER
			2665	

DATE MAILED: 08/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/003,309	Applicant(s) KANAKUBO, KATSUYA	
	Examiner Jason E. Mattis	Art Unit 2665	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 December 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date: ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Drawings

1. Figures 16 and 17A-17E should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-2, 4, 6-11, 13-16, 18-22, and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Kaczmarczyk et al. (U.S. Pat. 6775269).

With respect to claim 1, Kaczmarczyk et al. discloses a data transfer apparatus (See column 4 lines 59-65 and Figure 1 of Kaczmarczyk et al. for reference to signaling system 16 and media gateway 18, which together act as a data transfer apparatus). Kaczmarczyk et al. also discloses transferring a packet based on transfer information corresponding to one of a plurality of entries set in a packet search table in advance (See column 6 lines 26-47 and Figures 2A-2B of Kaczmarczyk et al. for reference to transferring packets based on information corresponding to entries in a database 40, which is a packet search table). Kaczmarczyk et al. further discloses a plurality of registration tables for having the transfer information registered by objectives (See column 6 lines 34-47 and Figure 2B of Kaczmarczyk et al. for reference to database 40 containing a plurality of tables having transfer information registered by objectives including dialed digits analysis table 50, local dial plan table 52, calling address privilege table 54, outbound privacy table 56, and route plan table 58). Kaczmarczyk et al. also discloses an address table for having an address of each of the registration tables (See column 2 lines 36-53, column 6 lines 34-47, and Figure 2B of Kaczmarczyk et al. for reference to using a table that includes pointers to other tables and for reference to address attribute table 48, which contains pointers to the tables 50, 52, 54, 56, and 58). Kaczmarczyk et al. further discloses a search means for obtaining the address from the address table corresponding to a matching entry of the plurality of entries (See column

7 lines 18-57 and Figures 4A and 5A of Kaczmarczyk et al. for reference to examining an Internet Protocol message and using information in the message to retrieve indexes to tables using information from the address attribute table 48).

Kaczmarczyk et al. also discloses obtaining transfer information on each of the registration tables based on the address **(See column 7 line 58 to column 9 line 13 and Figure 4A of Kaczmarczyk et al. for reference to obtaining transfer information on each of the tables 50, 52, 54, 56, and 58 based on the indexes stored in the table 48).**

With respect to claim 10, Kaczmarczyk et al. discloses a transfer information method of a data transfer apparatus (See column 4 lines 59-65 and Figure 1 of Kaczmarczyk et al. for reference to signaling system 16 and media gateway 18, which together act as a data transfer apparatus performing a method).

Kaczmarczyk et al. also discloses transferring a packet based on transfer information corresponding to one of a plurality of entries set in a packet search table in advance **(See column 6 lines 26-47 and Figures 2A-2B of Kaczmarczyk et al. for reference to transferring packets based on information corresponding to entries in a database 40, which is a packet search table).** Kaczmarczyk et al. further discloses registering transfer information in a plurality of registration tables by objectives **(See column 6 lines 34-47 and Figure 2B of Kaczmarczyk et al. for reference to database 40 containing a plurality of tables having transfer information registered by objectives including dialed digits analysis table 50, local dial plan table 52, calling address privilege table 54, outbound privacy table 56, and route plan table**

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58). Kaczmarczyk et al. also discloses registering an address of each of the registration tables in an address table **(See column 2 lines 36-53, column 6 lines 34-47, and Figure 2B of Kaczmarczyk et al. for reference to using a table that includes pointers to other tables and for reference to address attribute table 48, which contains pointers to the tables 50, 52, 54, 56, and 58).** Kaczmarczyk et al. further discloses obtaining transfer information on each of the registration tables based on the address of the address table corresponding to a matching entry **(See column 7 line 58 to column 9 line 13 and Figure 4A of Kaczmarczyk et al. for reference to obtaining transfer information on each of the tables 50, 52, 54, 56, and 58 based on the indexes stored in the table 48).**

With respect to claim 15, Kaczmarczyk et al. discloses a transfer information search method of a data transfer apparatus **(See column 4 lines 59-65 and Figure 1 of Kaczmarczyk et al. for reference to signaling system 16 and media gateway 18, which together act as a data transfer apparatus performing a search method).** Kaczmarczyk et al. also discloses transferring a packet based on transfer information corresponding to one of a plurality of entries set in a packet search table in advance **(See column 6 lines 26-47 and Figures 2A-2B of Kaczmarczyk et al. for reference to transferring packets based on information corresponding to entries in a database 40, which is a packet search table).** Kaczmarczyk et al. further discloses obtaining an address corresponding to a matching entry of the entries of an address table for having an address of each of a plurality of registration tables with the transfer information registered by objectives **(See column 6 lines 34-47, column 7 lines 18-57,**

and Figure 2B for reference to database 40 containing a plurality of tables having transfer information registered by objectives including dialed digits analysis table 50, local dial plan table 52, calling address privilege table 54, outbound privacy table 56, and route plan table 58, and for reference to using a table that includes pointers to other tables and for reference to address attribute table 48, which contains pointers to the tables 50, 52, 54, 56, and 58, and for further reference to examining an Internet Protocol message and using information in the message to retrieve indexes to tables using information from the address attribute table 48).

Kaczmarczyk et al. also discloses obtaining the transfer information on each of the registration tables based on the address **(See column 7 line 58 to column 9 line 13 and Figure 4A of Kaczmarczyk et al. for reference to obtaining transfer information on each of the tables 50, 52, 54, 56, and 58 based on the indexes stored in the table 48).**

With respect to claims 2, 11, and 16, Kaczmarczyk et al. discloses that the entries are classified into a plurality of types (See column 6 lines 34-47 and Figure 2B of Kaczmarczyk et al. for reference to entries being placed in tables classified by different types).

With respect to claim 6, 13, and 18, Kaczmarczyk et al. discloses that the transfer information is obtained by a result of a search divided by objectives (See column 6 lines 34-47, column 7 line 58 to column 9 line 13, and Figures 2B and 4A of Kaczmarczyk et al. for reference to the tables each being searched separately with each table having a different objective).

With respect to claims 7-8 and 19-20, Kaczmarczyk et al. discloses that the search process is executed a plurality of times according to the set number of the entries **(See column 6 lines 34-47, column 7 line 58 to column 9 line 13, and Figures 2B and 4A of Kaczmarczyk et al. for reference to the search process being performed once for each table according to the number of tables)**.

With respect to claims 4 and 22, Kaczmarczyk et al. discloses entries are classified into the plurality of types to execute a search process for the entries independently **(See column 6 lines 34-47, column 7 line 58 to column 9 line 13, and Figures 2B and 4A of Kaczmarczyk et al. for reference to each of the tables being searched independently by functions)**.

With respect to claim 21, Kaczmarczyk et al. discloses that a search process is executed independently divided by functions **(See column 6 lines 34-47, column 7 line 58 to column 9 line 13, and Figures 2B and 4A of Kaczmarczyk et al. for reference to the search processes being executed independently divided by functions based on the type of table)**.

With respect to claim 9, 14, and 24, Kaczmarczyk et al. discloses that transfer information is obtained by a result of indirect reference by the address **(See column 2 lines 36-53 for reference to using pointers to address of other tables meaning the transfer information is obtained by a result of indirect reference by the pointers)**.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3, 12, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaczmarczyk et al. in view of Rao et al. (U.S. Pat. 6674756).

With respect to claims 3, 12, and 17, Kaczmarczyk et al. discloses using variable entries that are set or deleted during operation (**See column 3 lines 16-28 of Kaczmarczyk et al. for reference to allowing a subscriber to change table entries as needed**). Kaczmarczyk et al. does not disclose using fixed entries.

With respect to claims 3, 12, and 17, Rao et al., in the field of communications, discloses using fixed entries (**See column 13 lines 5-13 for reference to a table using static address entries**). Using fixed entries has the advantage of making sure that non-changing information is stored permanently in a packet-forwarding table.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Rao et al., to combine using fixed entries, as disclosed by Rao et al., with the system and method of Kaczmarczyk et al., with the motivation being to make sure that non-changing information is stored permanently in a packet-forwarding table.

6. Claims 5 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaczmarczyk et al. in view of the Applicant's admitted prior art.

With respect to claims 5 and 23, Kaczmarczyk et al. discloses that the search means has functions classified to be performed independently including a packet filter **(See column 6 lines 34-47, column 7 line 58 to column 9 line 13, and Figures 2B and 4A of Kaczmarczyk et al. for reference to the search being classified into different types that are performed independently based on the table types, with one table being a calling privilege table 54 that determines whether senders of a packet have privileges to send packets and filters packets accordingly).**

Kaczmarczyk et al. does not disclose a packet account and QoS assurance flow search.

With respect to claims 5 and 23, Applicant's admitted prior art discloses performing a search to create a packet account and performing a QoS assurance flow search **(See page 5 line 22 to page 8 line 8 of the Applicant's specification for reference to performing a packet account and a QoS assurance flow search).**

Performing a search to create a packet account and performing a QoS assurance flow search has the advantage of allowing statistics to be generated to make sure a user is receiving a guaranteed level of service.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of the Applicant's admitted prior art, to combine using fixed entries, as disclosed by the Applicant's admitted prior art, with the system

and method of Kaczmarczyk et al., with the motivation being to allow statistics to be generated to make sure a user is receiving a guaranteed level of service.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason E. Mattis whose telephone number is (571) 272-3154. The examiner can normally be reached on M-F 8AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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